**Peanut Butter Balls to Demonstrate Atoms**

No bake cookies are a fun way for kids to build and better understand how quarks make up atoms. Use the following no bake cookie ball recipe. To differentiate between protons and neutrons, divide the recipe in half. In one half of the batch, substitute half of the powdered milk with hot cocoa mix. That way, the two batches of dough will be very distinguishable.

**Peanut Butter Ball Recipe**  
Makes 2 dozen

* 1 cup peanut butter
* 1 cup powdered milk
* ½ cup honey

Combine all ingredients in large bowl until thoroughly mixed. Use your hands to thoroughly mix the dough towards the end when it is not so sticky. Some find it works better to refrigerate for 30 minutes prior to rolling the dough into cookie balls. Variation: You can also roll it in powdered sugar or cocoa when done.

For a class of 30 so each could make one proton and one neutron, triple the recipe, but have the students compute it.

Triple for class of 30 so each child can make a proton and a neutron.

* 3 cups peanut butter
* 3 cups powdered milk
* 1½ cup honey

Now divide those into two groups: 1 for neutrons and 1 for protons:

**Half the Recipe will be mixed to make PROTONS**

**PROTON RECIPE:**

1 ½ cup peanut butter

1 ½ cup powdered milk

¾ cup honey

**Half the Recipe will be mixed (and changed bit) to make NEUTRONS:**

**NEUTRON RECIPE**  
1 ½ cup peanut butter

¾ cup powdered milk

&

¾ cup hot cocoa mix

¾ cup honey